

## **CLAIMS**

What is claimed is:

1. A mechanism to secure Intramedullary Nails (“IM Nails”) by using threaded guidewire between screws that secure an interlock the screws when a second proximal screw is placed as it will cause the guidewire to push/lock onto, around or through the distal screw. The mechanism immobilized the IM Nail by eliminating screw-nail play to maintain fracture reduction.
2. A mechanism of using a tapered screw with segmented threads and a guidewire between screws to lock IM Nails. The guidewire is placed after the distal screw placement and is locked onto, around or through both the distal and proximal screw upon placement of the proximal screw. The tapered screws with segmented threads allow for maximum screw strength, a lag effect, centering of IM Nail and engagement of both the IM Nail and threaded guidewire, thus immobilizing the IM Nail by eliminating screw-nail play.
3. A mechanism of using a tapered screw with segmented threads to interlock IM Nails using any other or no other alternative mechanism. The tapered screws with segmented threads allow for maximum screw strength, a lag effect, centering of IM Nail and engagement of the IM Nail.